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- 17. The process according to claim 1 wherein said directionally aligning the graphene layers of the laminate comprises increasing a density of the laminate from the range of 1.1 g/cc to 1.35 g/cc to greater than 1.4 g/cc.
- 18. The process according to claim 1 wherein said directionally aligning the graphene layers of the laminate comprises increasing a density of each of said plurality of flexible graphite sheets to more than about 1.4 g/cc.
- 19. The process according to claim 1 wherein said directionally aligning the graphene layers of the laminate occurs prior to said forming said laminate.
- 20. A process for producing a graphite article comprising applying a sufficient amount of pressure to a plurality of flexible graphite sheets to directionally align at least one graphene layer of each sheet of flexible graphite and forming said plurality of flexible graphite sheets into a laminate.
- 21. The process according to claim 20 wherein an initial density of one or more of said plurality of flexible graphite sheets prior to said applying pressure comprises 1.1 g/cc to 1.35 g/cc and a final density of said one or more of said plurality of flexible graphite sheets comprises more than about 1.4 g/cc.
- 22. The process according to claim 20 wherein said applying pressure comprises calendering said plurality of flexible graphite sheets.
- 23. The process according to claim 20 wherein said applying pressure comprises pressing said plurality of flexible graphite sheets.
- 24. A process of producing a graphite article comprising forming a plurality of graphite sheets into a laminate and applying a sufficient amount of pressure to said laminate to directionally align at least one graphene layer of said laminate.
- 25. The process according to claim 24 wherein an initial density of said laminate prior to said applying pressure comprises 1.1 g/cc to 1.35 g/cc and a final density of said laminate comprises more than about 1.4 g/cc.
- 26. The process according to claim 24 wherein said applying pressure comprises calendering said laminate.
- 27. The process according to claim 24 wherein said applying pressure comprises pressing said laminate.